

AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33. U. S. C. 1251 *et seq.*, the Act),

Manenggon Hills Resort Project  
MDI Guam Corporation  
340 Pale San Vitores Road, Suite 305  
Tumon, GU 96911

is authorized to discharge stormwater runoff from the Manenggon Hills Resort Project to Category S-1 (High) waters named Ylig River, Manenggon River, and their tributaries. The discharge of stormwater runoff from the Manenggon Hills Resort Project and the reuse of treated domestic sewage from the Manenggon Hills Interim Wastewater Treatment Plant (IWTP) shall be in accordance with discharge limitations, monitoring requirements, and other conditions set forth herein, and in the attached USEPA Region 9 *Standard Federal NPDES Permit Conditions*, dated May 10, 1990.

This permit shall become effective on \_\_\_\_\_, 2000.

This permit and the authorization to discharge shall expire at midnight,  
\_\_\_\_\_, 2005.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 2000.

For the Regional Administrator

\_\_\_\_\_  
Alexis Strauss, Director  
Water Division

**A. PROHIBITIONS**

1. The direct discharge of effluent from the Manenggon Hills IWTP to receiving waters named Ylig River, Manenggon River, or their tributaries is strictly prohibited.
2. The discharge of stormwater runoff contaminated with effluent from the Manenggon Hills IWTP to receiving waters named Ylig River, Manenggon River, or their tributaries is strictly prohibited.
3. Effluent from the Manenggon Hills IWTP shall not be applied to Manenggon Hills Resort Project areas for irrigation during rainfall events.
4. The discharge of any pollutant in toxic amounts, including substance which may accumulate to toxic amounts during the expected life of organisms in the receiving water, which are lethal to, or which produce deleterious genetic, physiological, or behavioral effects in organisms is strictly prohibited.

**B. DISCHARGE LIMITATIONS**

1. The discharge of stormwater runoff shall be free from substances which:
  - a. Cause visible floating materials, debris, oils, grease, scum, foam, or other floating matter which degrades water quality or use;
  - b. Produce visible turbidity, settle to form deposits or otherwise adversely affect aquatic life;
  - c. Produce objectionable color, odor, or taste, directly or by chemical or biological action;
  - d. Injure or are toxic or harmful to humans, animals, plants or aquatic life; and
  - e. Induce the growth of undesirable aquatic life.
2. The discharge of stormwater runoff shall not cause:
  - a. The concentration of dissolved oxygen in the receiving waters to be decreased below 75 percent saturation at any time, as influenced by naturally occurring temperature variations. Where natural conditions cause lower dissolved oxygen levels, the discharge of stormwater runoff shall not cause further reductions.
  - b. The concentration of total dissolved solids in the receiving waters named Ylig River or Manenggon River to exceed 500 mg/l, or 133% of the ambient condition.

- c. The concentration of total suspended solids in the receiving waters named Ylig River or Manenggon River to be increased from ambient conditions.
- d. The turbidity in the receiving waters to exceed 0.5 NTU over the ambient condition, except when due to natural conditions.
- e. The temperature of the receiving waters to be changed by more than 1.0 °C from ambient conditions.
- f. Concentrations of oil or petroleum products in the receiving waters:
  - i. Detectable as a visible film, or sheen, or resulting in visible discoloration of the surface with a corresponding oil or petroleum product odor;
  - ii. To cause damage to fish, invertebrates, or objectionable degradation of drinking water quality; or
  - iii. To form an oil deposit on the shores or bottom of the receiving body of water.

C. SPECIAL CONDITIONS

- 1. The permittee shall operate the Manenggon Hills Resort Project in a manner to protect water quality of the Ylig River, Manenggon River, and their tributaries.
- 2. Best Management Practices Plan Requirements

The permittee shall submit within 90 days of the effective date of this permit, a Best Management Practices (BMP) Plan for the reuse of disinfected advanced secondary treated domestic sewage for irrigation to protect receiving water quality at the Manenggon Hills Resort Project. The BMP Plan shall include:

- a. A site map indicating all stormwater runoff collection systems and discharge points.
- b. A site map indicating all materials storage facilities and construction areas. Storage areas for pesticides and fertilizers shall also be indicated.
- c. A site map indicating all effluent wastewater lines, wastewater treatment works, and areas for land application of effluent.
- d. Control and management BMPs for:
  - i. Irrigation and reuse of treated domestic sewage on the areas of application;

- ii. Stormwater runoff from irrigation areas;
    - iii. Fertilizer and pesticide use;
    - iv. General irrigation; and
    - v. Stormwater runoff from the IWTP.
  - e. A site map(s) for the Manenggon River watershed, associated tributaries, natural and man-made hydraulic drainages, Ylig River, etc.
  - f. A site map(s) showing golf course layout, drainage and irrigation systems, storage facilities, etc. Site map(s) shall be of sufficient detail to show the drainage characteristics for each of the three courses.
3. All sewage sludge/biosolids generated by the permittee shall be used or disposed of in accordance with applicable Territory regulations and applicable portions of 40 CFR 503, 258, and 257. The permittee shall give notice to GEPA and USEPA Region 9 180 days prior to a significant change in the sludge use or disposal practice occurs. This permit may be reopened and modified, in accordance with the requirements set forth at 40 CFR 122 and 124, to include technical standards if the technical standards are more stringent or comprehensive than the conditions of this permit.
4. This permit may be reopened and modified, in accordance with the requirements set forth at 40 CFR 122 and 124, to include appropriate conditions or limitations to address effluent toxicity based on newly available information, or to implement any USEPA Region 9-approved new Territory water quality standards applicable to effluent toxicity.

**D. RECEIVING WATER MONITORING REQUIREMENTS**

To determine the effectiveness of stormwater management and BMP Plan implementation at the Manenggon Hills Resort Project, the permittee shall conduct the following receiving water monitoring program.

## 1. Receiving Water Monitoring Stations (see Attachment 1)

Station Name	Location
LPR-1 (previously identified as SG-2)	Tributary 4 (T-4) at discharge point from Wetland No. 15.
LPR-2 (previously identified as SG-3 (P-3))	Tributary 4 (T-4) at top of waterfall.
LPR-3 (previously identified as P-4)	Tributary 5 (T-5) 100 feet upstream of confluence with T-3.
LPR-4 (previously identified as SG-4 (P-2))	Tributary 3 (T-3) Manengggon River 100 feet downstream of dam site.
LPR-5 (previously identified as P-1)	Ylig River 150 feet upstream of confluence with Manengggon River.

## 2. Receiving Water Monitoring

Receiving Water Characteristic	Units	Station	Monitoring Frequency	Sample Type
pH	units	LPR-1, LPR-2, LPR-3, LPR-4, LPR-5	Monthly	Discrete <sup>1</sup>
Orthophosphate (PO <sub>4</sub> -P)	mg/l	"	Monthly	"
Nitrate-Nitrogen (NO <sub>3</sub> -N)	mg/l	"	Monthly	"
Total Dissolved Solids	mg/l	"	Quarterly	"
Turbidity	NTU	"	Quarterly	Nephelometer
Temperature	°C	"	Monthly	Discrete
Pesticides <sup>2</sup>	ug/l	"	Semi-annually	"

## E. REPORTING REQUIREMENTS

- Receiving water monitoring results obtained during the previous three months shall be summarized for each month and submitted to the addresses listed below. The results of all monitoring required by this permit shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this permit. Monitoring reports shall be postmarked no later than the 28<sup>th</sup> day of the month following the

<sup>1</sup> *Discrete* sample means any individual sample collected in less than 15 minutes.

<sup>2</sup> *Pesticides* means arsenic, iprodione, metalaxyl, diazinon, dicamba, imazaquin, oryzalin, metribuzin, chlorotalonil, oxadiazon, 2,4-D, carbaryl, glyphosate, pyrethrins, chlorpyrifos, propiconazole, MCPP, thiothanate-methyl, and mancozeb.

completed reporting period. The first report is due 30 days following the effective date of this permit. Duplicate signed copies of these, and all other reports required herein, shall be submitted to the Regional Administrator and GEPA at the following addresses:

USEPA Region 9  
Pacific Insular Area Program (CMD-5)  
75 Hawthorne Street  
San Francisco, CA 94105-3901  
Telephone: 415/744-1484

Administrator  
Guam Environmental Protection Agency  
P. O. Box 22439-GMF  
Barrigada, GU 96921  
Telephone: 671/475-1658

2. Twenty-four Hour Reporting of Noncompliance

The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances to the GEPA address given above. If the permittee is unsuccessful in contacting the GEPA, he/she shall report by 9:00 a.m. on the first business day following the noncompliance. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

*Attachment 1:*

LOCATION MAP

AND

RECEIVING WATER  
MONITORING STATIONS

*Attachment 2:*

**STANDARD NPDES PERMIT CONDITIONS**